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# ANNUAL REPORT TO THE
# BOARD OF SUPERVISORS
# COUNTY SURVEYOR'S OFFICE
# JANUARY 1, 1977

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COUNTY OF ORANGE

ENVIRONMENTAL MANAGEMENT AGENCY

DEVELOPMENT DIVISION

400 CIVIC CENTER DRIVE WEST
SANTA ANA, CA.

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H. G. OSBORNE
DIRECTOR

C. R. NELSON
ASSISTANT DIRECTOR
DEVELOPMENT

FILE

The Honorable Board of Supervisors
County of Orange
Santa Ana, California

SUBJECT: Annual Report, County Surveyor's Office

Gentlemen:

Transmitted herewith is the annual report of the County Surveyor's Office which summarizes the activities of this office for the 1976 calendar year.

RECOMMENDATION: Receive and file.

Respectfully submitted,

C. R. Nelson
County Surveyor

RVW:hjb
Enclosure

cc: County Administrative Office

Concurred:

H. G. Osborne, Director

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# ANNUAL REPORT TO THE BOARD OF SUPERVISORS
## SURVEY SECTION - EMA
## January 1, 1977

The Survey Section of the EMA consists of two separate groups: Office and Field Survey. The duties of each group and the work performed during 1976 are as follows:

### SUBDIVISION MAP CHECKING UNIT - OFFICE GROUP

This unit examines all tract maps, parcel maps, and record of survey maps before they are filed or recorded. Tracts in unincorporated territory are checked for mathematical accuracy and for compliance with the Subdivision Map Act and County Ordinances. City tracts are checked only for compliance with the Subdivision Map Act.

A breakdown of recorded tracts by unincorporated territory and incorporated territory with a comparison between 1975 and 1976 is as follows:

| | 1975 | 1976 | PERCENT OF 1975 | ACREAGE 1976 | LOTS 1976 | AVERAGE LOTS PER TRACT-1976 |
|---|---|---|---|---|---|---|
| INCORPORATED | 171 | 304 | 178% | 3352.48 | 11284 | 37.1 |
| UNINCORPORATED | 62 | 107 | 173% | 1830.37 | 5076 | 47.4 |
| TOTAL | 233 | 411 | 176% | 5182.85 | 16360 | 39.8 |

A breakdown of recorded tracts by Supervisorial Districts is as follows:

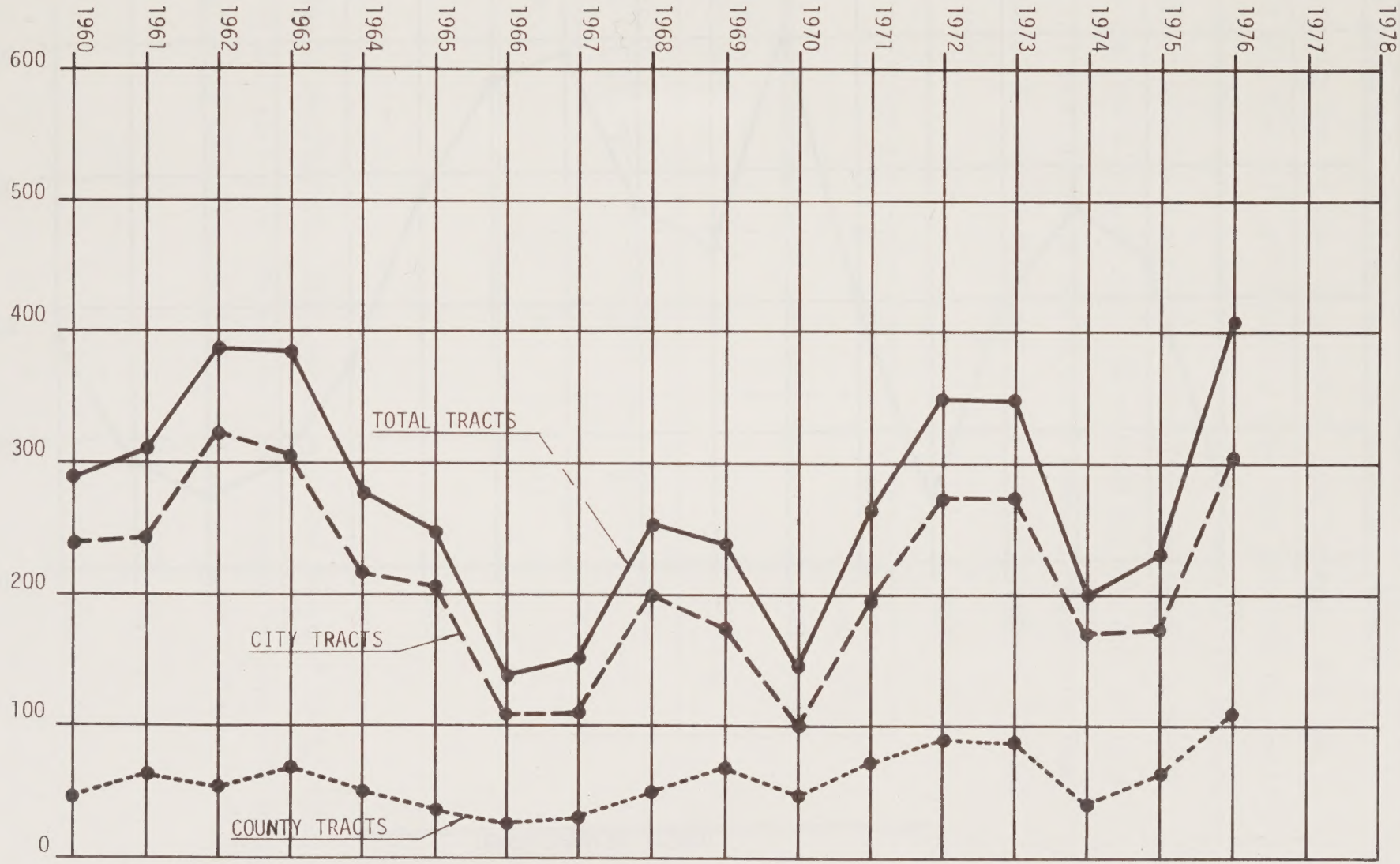
| DISTRICT | TRACTS | ACRES | LOTS |
|---|---|---|---|
| 1 | 28 | 198.02 | 915 |
| 2 | 43 | 411.47 | 1688 |
| 3 | 65 | 743.56 | 2582 |
| 4 | 77 | 1126.40 | 3205 |
| 5 | 198 | 2703.40 | 7970 |

## YEAR 1976 - TOTAL NUMBER OF TRACTS RECORDED

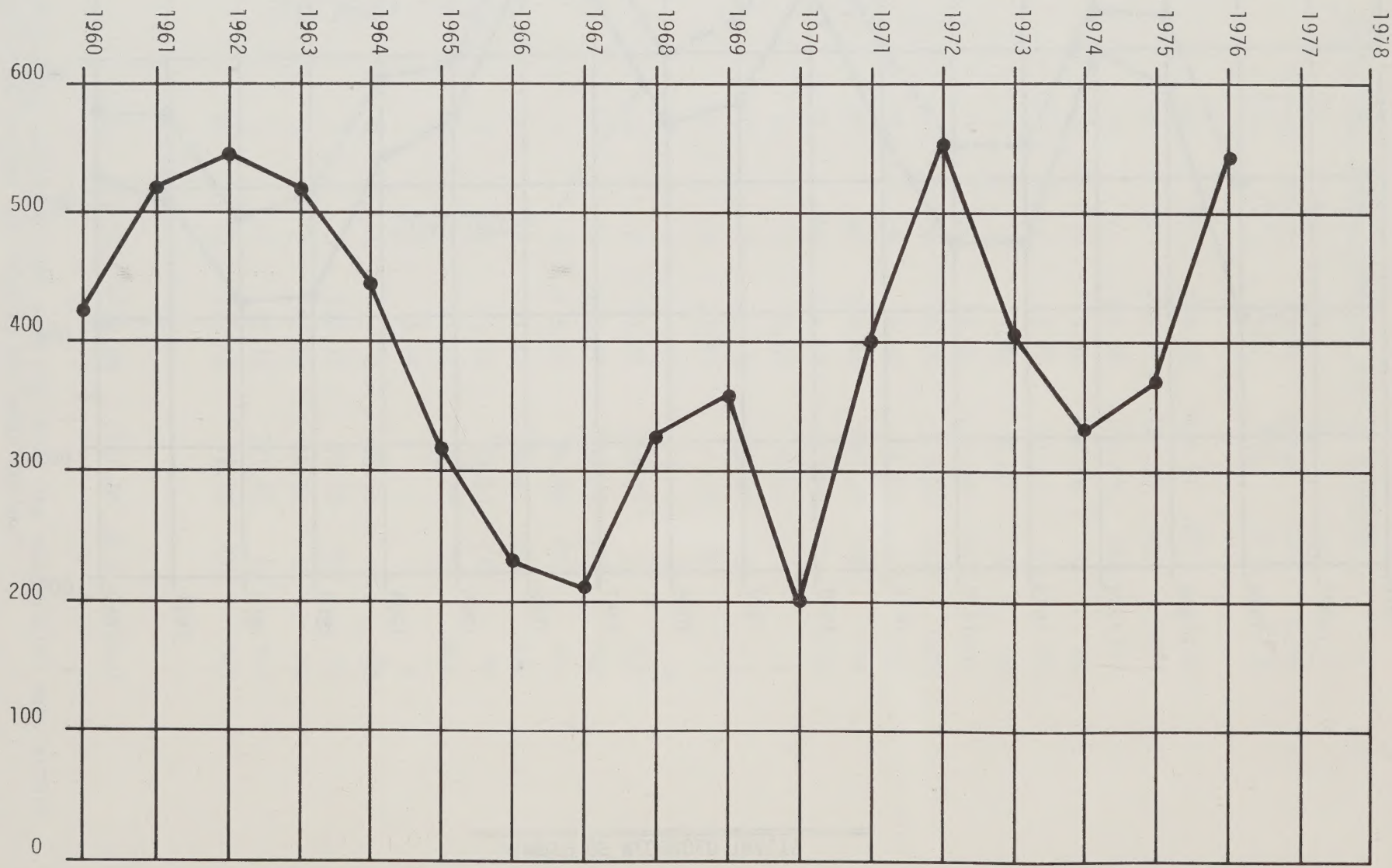
| | No. Tracts 1975 | No. Tracts 1976 | No. Acres 1975 | No. Acres 1976 | No. Lots 1975 | No. Lots 1976 |
|---|---|---|---|---|---|---|
| Unincorporated Orange County | 62 | 107 | 916.99 | 1830.37 | 2975 | 5076 |
| Anaheim | 28 | 44 | 343.77 | 724.38 | 1024 | 2367 |
| Brea | 5 | 11 | 366.38 | 138.44 | 408 | 578 |
| Buena Park | 2 | 3 | 13.85 | 48.55 | 91 | 85 |
| Costa Mesa | 7 | 12 | 22.77 | 50.34 | 53 | 174 |
| Cypress | 3 | 2 | 10.30 | 6.38 | 32 | 50 |
| Fountain Valley * | 7 | 16 | 66.42 | 111.56 | 208 | 497 |
| Fullerton * | 4 | 20 | 96.18 | 275.06 | 332 | 905 |
| Garden Grove | 1 | 9 | 1.65 | 61.68 | 7 | 247 |
| Huntington Beach | 18 | 40 | 202.41 | 440.03 | 890 | 1797 |
| Irvine * | 22 | 48 | 225.62 | 314.09 | 556 | 1289 |
| Laguna Beach | 2 | 1 | 0.47 | 0.27 | 2 | 1 |
| La Habra | 0 | 2 | 0 | 12.89 | 0 | 4 |
| La Palma | 3 | 0 | 35.51 | 0 | 199 | 0 |
| Los Alamitos | 0 | 0 | 0 | 0 | 0 | 0 |
| Newport Beach | 4 | 8 | 43.41 | 108.61 | 16 | 235 |
| Orange | 17 | 25 | 218.91 | 350.83 | 578 | 892 |
| Placentia | 7 | 8 | 115.96 | 86.80 | 532 | 374 |
| San Clemente | 6 | 9 | 31.81 | 208.93 | 252 | 336 |
| San Juan Capistrano | 4 | 3 | 53.10 | 60.64 | 179 | 72 |
| Santa Ana | 6 | 12 | 41.32 | 97.98 | 83 | 496 |
| Seal Beach | 1 | 0 | 7.79 | 0 | 2 | 0 |
| Stanton | 0 | 1 | 0 | 20.13 | 0 | 92 |
| Tustin | 5 | 3 | 132.78 | 16.28 | 158 | 72 |
| Villa Park | 2 | 2 | 22.79 | 19.29 | 37 | 19 |
| Westminster | 1 | 13 | 10.72 | 121.02 | 52 | 557 |
| Yorba Linda | 16 | 12 | 211.48 | 78.30 | 470 | 145 |
| GRAND TOTAL | 233 | 411 | 3192.39 | 5182.85 | 9136 | 16360 |

*County Subdivision Map Checking unit does not check the subdivision maps within the designated cities except for "County Recorder Review".

## NUMBER OF RECORDED TRACTS



## TRACT NUMBERS ISSUED



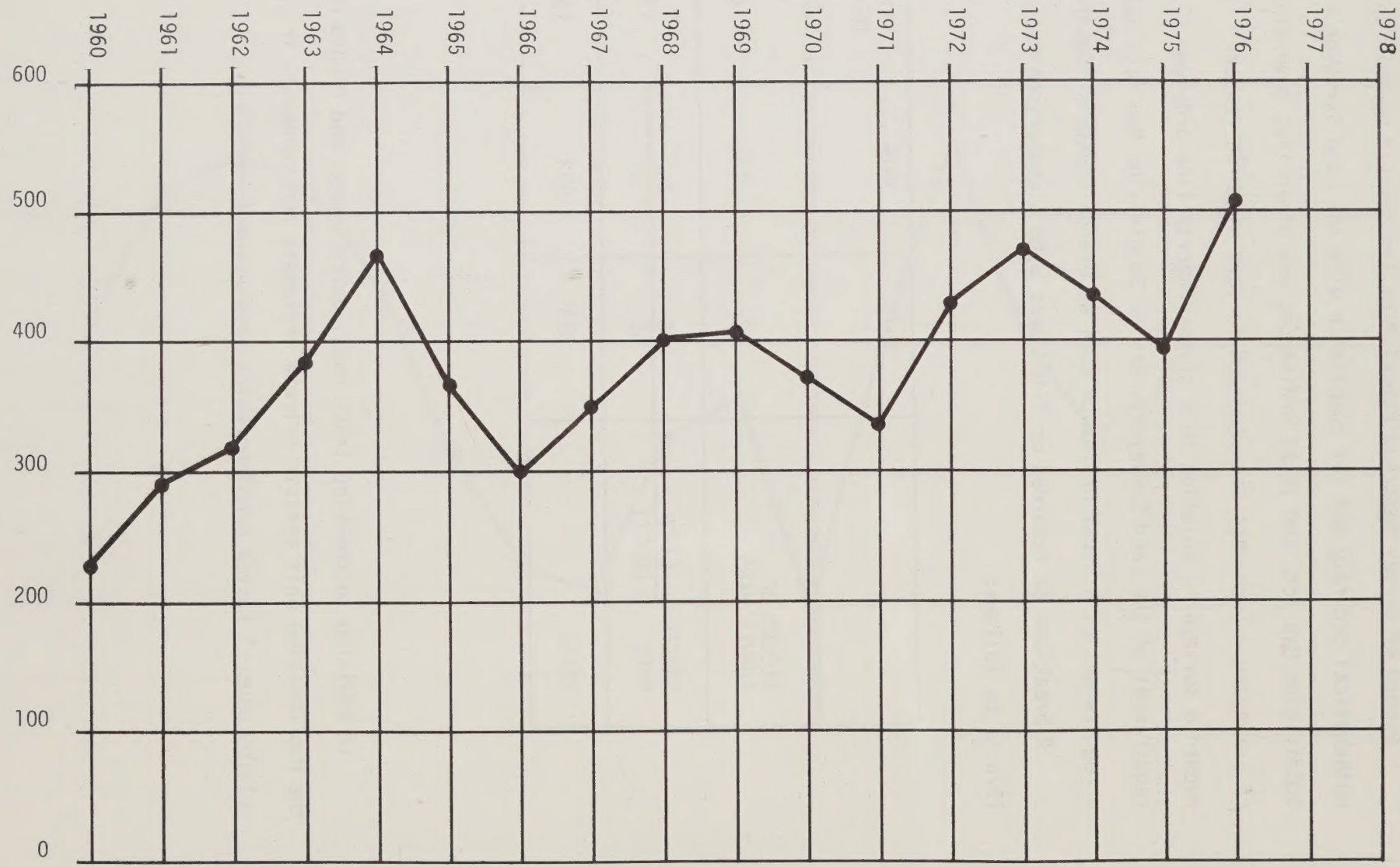
Record of Survey Maps and Parcel Maps are checked by this unit for mathematical accuracy and for compliance with the Land Surveyor's Act, the Subdivision Map Act, and local ordinances and other laws governing the practice of surveying. Such maps are recorded for any of three reasons: (1) to place on record a surveyor's solution to a given property line problem; (2) to meet a requirement of the Land Surveyor's Act or Subdivision Map Act; and, (3) to meet a requirement of a local ordinance such as Orange County's "Subdivision Code".

A breakdown of recorded or filed maps with a comparison between 1975 and 1976 is as follows:

| | | 1975 | 1976 | PERCENT OF 1975 |
|---|---|---|---|---|
| RECORD OF SURVEY MAPS | | 38 | 18 | 47% |
| PARCEL MAPS | CITY | 300 | 408 | 139% |
| | COUNTY | 55 | 87 | |
| TOTAL | | 393 | 513 | 131% |

In addition to checking tract maps, parcel maps and record of survey maps, the Map Checking Unit assists private engineers and surveyors in researching and solving unusual survey problems which arise from time to time.

## RECORDED PARCEL AND RECORD OF SURVEY MAPS



## MAP DRAFTING UNIT - OFFICE GROUP

This unit maintains 92 county road maps, 81 county precinct maps and performs miscellaneous drafting work as required.

COUNTY ROAD MAPS: The County Road Maps show streets, subdivisions, records of surveys, parcel maps, county surveyor's maps, city boundaries, public properties, relinquishments of state highways to local jurisdiction and abandonments of public streets and public properties. The following changes were made on the road maps and their tracings during 1976:

395 New subdivisions were plotted.

209 New recorded documents affecting county properties and rights of way were delineated.

33 New city annexations of county territories were plotted.

COUNTY PRECINCT MAPS: The county precinct maps show all streets, precinct boundaries, census tracts, school districts, supervisorial districts, judicial districts, congressional districts, assembly districts, senatorial districts, and city boundaries. The following changes were made on the precinct maps and their overlays during 1976:

2726 Revisions were made at the request of the Registrar of Voters and as caused by city annexations and incorportations of county territory.

395 New subdivisions were plotted.

OFFICIAL COUNTY MAPS: Official county maps are located in various offices throughout the county. Eighteen maps were periodically updated to show correct city boundaries which changed due to annexations.

MISCELLANEOUS DRAFTING WORK: Consists of maps drafted or display maps prepared.

| | |
|---|---|
| 14 | Maps for the Board of Supervisors |
| 43 | Maps for Survey Field Section |
| 51 | Maps for EMA Administrative Offices |
| 3 | Maps for Refuse Division |
| 19 | Maps for Registrar of Voters |
| 16 | Maps for Deputy County Surveyor |
| 31 | Maps for County Surveyor's Office |
| 7 | Maps for County Administrative Office |
| 16 | Maps for G.S.A. (Space Planning) |
| 3 | Maps for County Air Pollution |

## BOUNDARY UNIT - OFFICE GROUP

This unit examines all descriptions and maps of proposed formation, annexations and/or de-annexations involving cities or districts, and reports its findings to the Board of Supervisors or the Local Agency Formation Commission.

When districts are involved such as school districts, judicial districts and districts governed by the Board of Supervisors, this unit prepares the necessary maps and legal descriptions for all formations and boundary changes.

During 1976 there were forty five maps prepared and accompanying legal descriptions written for various districts such as County Service Areas, Orange County Street Lighting Maintenance Districts and School Districts. In addition forty eight exhibit maps were prepared for various county departments and one hundred forty display and exhibit maps were prepared for the Local Agency Formation Commission.

There are one hundred sixty-five master maps and folders maintained by this unit. During 1976, eleven district folders were researched and brought up to date with new master maps prepared for each district.

In the following table, the first column indicates the number of proposed annexations and/or de-annexations to cities; the second column indicates the number of annexations and/or de-annexations which became final; and the third column indicates the number of acres included within the annexation and/or de-annexation which became final.

| CITIES | PROPOSED ANNEXATIONS | ANNEXATIONS FINALIZED | NO. OF ACRES INCLUDED WITHIN ANNEXATIONS |
|---|---|---|---|
| Anaheim | 19 | 12 | 103.894 |
| Brea | 2 | 2 | 130.116 |
| Buena Park | 2 | 1 | 3.428 |
| Costa Mesa | 4 | 0 | 0 |
| Cypress | 4 | 3 | 27.705 |
| Fountain Valley | 2 | 0 | 0 |
| Fullerton | 1 | 1 | 2.21 |
| Garden Grove | 7 | 3 | 5.954 |
| Huntington Beach | 1 | 0 | 0 |
| Irvine | 0 | 0 | 0 |
| Laguna Beach | 1 | 0 | 0 |
| La Habra | 13 | 6 | 7.66 |
| La Palma | 0 | 0 | 0 |
| Los Alamitos | 0 | 0 | 0 |
| Newport Beach | 0 | 0 | 0 |
| Orange | 15 | 6 | 519.248 |
| Placentia | 4 | 0 | 0 |
| San Clemente | 0 | 0 | 0 |
| San Juan Capistrano | 0 | 0 | 0 |
| Santa Ana | 0 | 0 | 0 |
| Seal Beach | 1 | 1 | 898.8 |
| Stanton | 0 | 0 | 0 |
| Tustin | 8 | 5 | 1,631.868 |
| Villa Park | 0 | 0 | 0 |
| Westminster | 2 | 3 | 20.488 |
| Yorba Linda | 3 | 3 | 8.679 |
| TOTAL | 89 | 46 | 3,360.050 |

Tabulated below in a similar manner as city boundary changes are the number of descriptions and maps processed for various taxable districts of the county.

| NUMBER AND TYPE OF DISTRICTS | | PROPOSED ANNEXATIONS | ANNEXATIONS FINALIZED |
|---|---|---|---|
| 8 | Sanitary | 59 | 42 |
| 8 | Sanitation | 13 | 9 |
| 9 | Lighting | 18 | 17 |
| 11 | Lighting Maintenance | 60 | 48 |
| 3 | Highway Lighting | 0 | 0 |
| 4 | Recreation & Park | 12 | 2 |
| 3 | Sewer Maintenance | 0 | 0 |
| 13 | County Service Areas | 25 | 10 |
| 4 | Library | 2 | 3 |
| 23 | Water | 50 | 32 |
| TOTAL | | 239 | 163 |

## FIELD SURVEY GROUP

The Field Survey Group maintains and extends horizontal and vertical control surveys, retraces section lines, and references and retraces street center lines throughout the County. This information is made available to the general public. In addition, this section does all the field survey work for projects of the Environmental Management Agency and other County departments as requested. The group is made up of eleven field survey parties and an office unit for computations.

### HORIZONTAL CONTROL SURVEYS

Horizontal control surveys are made to establish and maintain the coordinated network of points on a single datum for the benefit of all engineering projects or boundary surveys within the County.

Major projects for which horizontal control has been completed during 1976 are:

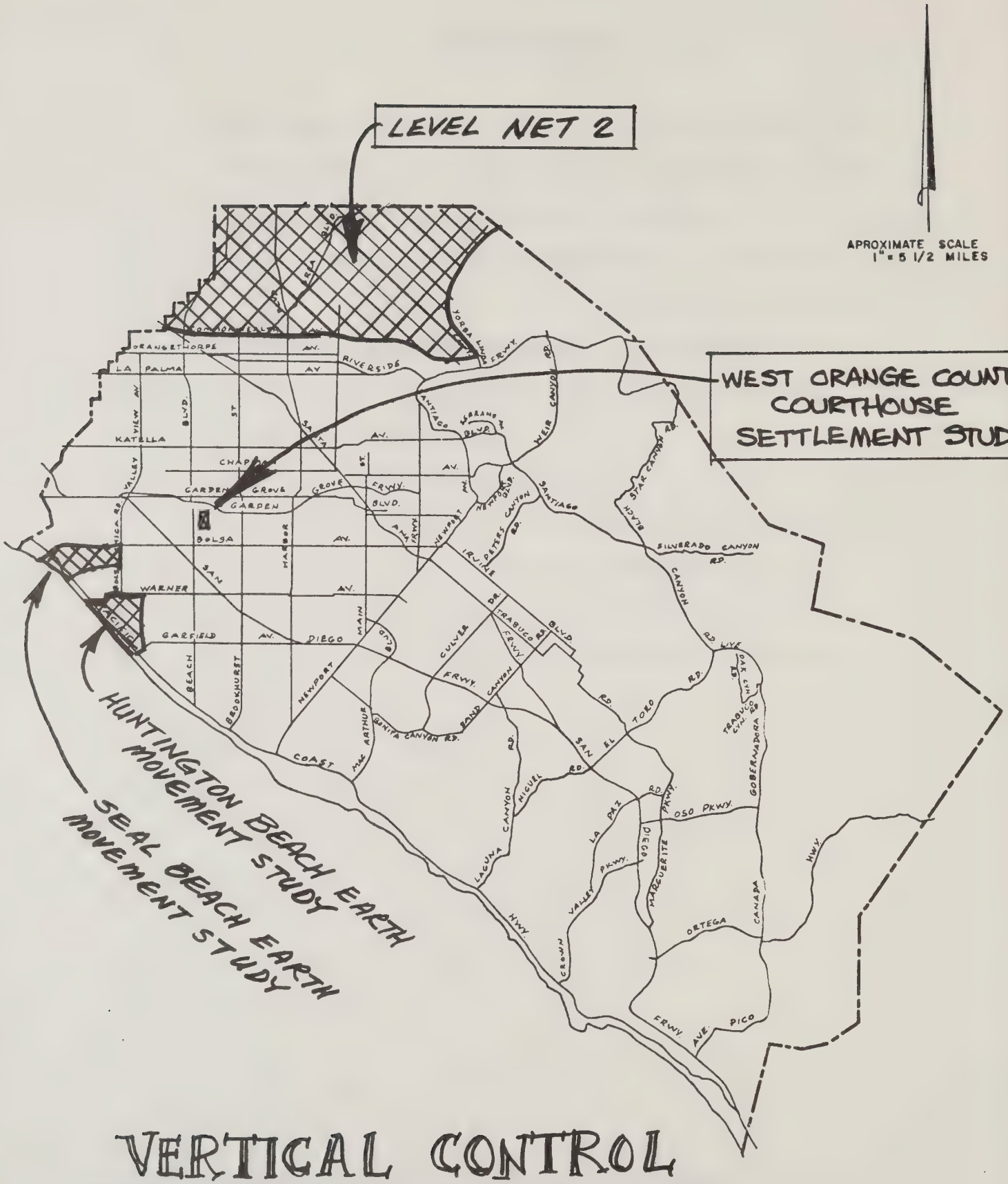
1. Tonner Canyon Earth Movement Study
2. Yorba Linda Earth Movement Study
3. Seal Beach Earth Movement Study
4. Huntington Beach Earth Movement Study
5. Los Coyotes Regional Park Control
6. Centennial Regional Park Control
7. Sunset Beach Control
8. El Toro Road Control
9. Sulphur Creek Control
10. Villa Park Quad Movement Study
11. Updating Cal-Trans (California Division of Highways) Control to O.C.S. 1-1-75 Datum.

## VERTICAL CONTROL SURVEYS

The vertical control surveys establish a precise common datum for elevations thoughout the County. This information is made available to the general public. By releveling all previously established lines, it is determined where crustal movements have taken place within the County.

Approximately 97 miles of precise leveling was accomplished during 1976. The major projects are as follows:

1. Level Net 2
2. West County Courthouse Settlement Study
3. Seal Beach Earth Movement Study
4. Huntington Beach Earth Movement Study
5. Reruns of portions of the 400 series level lines in Santa Ana and Huntington Beach




# VERTICAL CONTROL

## 1976

## CENTERLINE SURVEYS

During 1976 approximately 15 miles of centerline were surveyed and referenced in the County. The following projects were completed during this period:

1. Hewes Avenue at Old Foothill Boulevard
2. Orangethorpe Avenue at Magnolia Avenue
3. Yorba Linda Boulevard - Bradford to Imperial
4. Cerritos Avenue at Brookhurst and at Gilbert
5. La Pata Avenue - Prima Deshecha Disposal Station to Ortega Highway
6. Live Oak Canyon Road - El Toro Road to Plano Trabuco
7. Solana Drive - Chapman Avenue Southerly
8. Prospect Avenue - 17th Street to Santa Clara
9. Jeffrey Road - Barranca to Irvine Center Drive
10. Broadway Avenue - Brookhurst to Gilbert

## ARTERIAL HIGHWAY CENTERLINE SURVEYS

During 1976 approximately 20 miles of Arterial Highway centerline in Westerly Orange County were surveyed and referenced. The following projects were completed during this period:

1. Warner Avenue - Brookhurst to Beach
2. Heil Avenue - Brookhurst to Beach
3. Edinger Avenue - Brookhurst to Beach
4. McFadden Avenue - Brookhurst to Beach
5. Bolsa Avenue - Brookhurst to Beach
6. Brookhurst Street - Warner to Bolsa
7. Bushard Street - Warner to Bolsa
8. Magnolia Street - Warner to Bolsa
9. Newland Street - Warner to Bolsa
10. Beach Boulevard - Warner to Bolsa

## BOUNDARY SURVEYS

The following boundary surveys were completed in 1975:

1. Sec. 19, T.4.5., R.10W. - Re-establish center of Section (Cerritos and Gilbert) - Record of Survey
2. Stonehill Drive - Del Obispo to Selva - Record of Survey
3. S'ly line Tr. 578, Panorama Heights - Record of Survey
4. Dana Point Harbor, Parcel #28 - Parcel Map
5. Yorba Linda Reservoir - Land exchange
6. Santiago Regional Park - Lots 15 and 16, Blk. B, Oge and Bond.
7. Laguna Niguel Regional Park
8. Sunset Beach - Anderson to Warner
9. Coast Royale Beach - South Laguna
10. Santa Ana River - SE'ly R/W - Lincoln to Glassell.
11. Aliso Creek at Hall Ranch

## PHOTOGRAMMETRIC SURVEYS

Photogrammetric surveys are generally used to obtain preliminary survey information of a large area for planning and design of various projects. The field survey group prepares the agreement with the photogrammetrist, establishes the vertical and horizontal control and checks the final maps for accuracy and agreement with the specifications. The photogrammetric surveys completed in 1976 are:

1. Olinda Refuse Disposal Station #20 - Volume and Mapping
2. Coyote Canyon Refuse Disposal Station #24 - Volume and Mapping.
3. Santiago Canyon Refuse Disposal Station #25 - Volume and Mapping
4. Sulphur Creek - Crown Valley Parkway to Aliso Creek Road
5. Los Coyotes Regional Park
6. Centennial Regional Park
7. Sunset Beach - Anderson to Warner - (for encroachments)
8. Coast Royale Beach - South Laguna - (for encroachments)
9. El Toro Road - 2.6 miles N'ly Trabuco Road to Live Oak Canyon Road - Mapping and X-Sections

## MISCELLANEOUS SURVEYS

The following miscellaneous surveys were completed in 1976:

1. Movement study - Villa Park Dam
2. Movement study - Sulphur Creek Dam
3. Movement study - Santiago Canyon Road bridge
4. Scour studies - Approximately 48 miles on the following O.C.F.C.D. Channels: B01, C02, C04, C05, D03, E01, F05, F06, L01, L02 and L03
5. Flag R/W - Approximately 9 miles on the following : O.C.F.C.D. Channels - A01, B01, B01P08, F01, F02, J01, J07 and L03; Park sites - El Toro Community Park, Carbon Canyon Regional Park, TR. 7622 and TR. 4908 in Laguna Niguel, TR. 7340 and Bent Tree Community Park; and roads - Skyline Drive, Street of the Golden Lantern, Street of the Violet Lantern, Orange Avenue, Main Street and Madison Avenue
6. Posting for Districts, Sheriff and abandonments - 19 various jobs.
7. Carbon Canyon Regional Park Archery Range
8. Various potholes for utility locations.
9. Numerous field map checks

## PRELIMINARY SURVEYS

Approximately 92 miles of preliminary surveys have been accomplished during 1976. These surveys are used as a basis for planning and design of various projects. Following are the locations of these surveys:

| | PROJECT | PROJECT LIMITS |
|---|---|---|
| 1. | Southern Pacific Bike Trail | In Tustin and Orange |
| 2. | Cambridge Storm Drain | Utility location |
| 3. | Rossmoor Park | The park |
| 4. | El Modena Redevelopment | Various streets |
| 5. | Street of the Golden Lantern | P.C.H. to N/O Selva |
| 6. | Alicia Parkway | Overhead @ A.T. & S.F.R.R. |
| 7. | Marguerite Parkway | Via Curacion to Oso Parkway |
| 8. | Newport Harbor | U.S. Bulkhead Station 104A to 106 |
| 9. | Carbon Canyon Regional Park | Vesuvios Drive to park entrance |
| 10. | Dean Street | Blueberry S'ly to end of street |
| 11. | Transfer Station 2 | Monthly Ramp Profiles |
| 12. | Palisades Sidewalk | Camino Capistrano to P.C.H. |
| 13. | Marguerite Parkway | La Sierra to O'Neill Drive |
| 14. | Sumner Place | Crescent to Merten |
| 15. | Transfer Station 2 | Monthly Ramp Profile |
| 16. | Los Alamitos Channel | Rossmoor Retarding Basin |
| 17. | Irvine Boulevard | Bake Parkway to Canada |
| 18. | Palisades sidewalk | Camino Capistrano to P.C.H. |
| 19. | Arterial Bike System #15C | Along Avery Parkway |

## PRELIMINARY SURVEYS

| | PROJECT | PROJECT LIMITS |
|---|---|---|
| 20. | Ortega Highway Rest Area #1 | |
| 21. | Olinda Disposal Station | Access Road |
| 22. | Fullerton Creek Channel | @ Kimberly Ch. and Fullerton Creek |
| 23. | Los Alisos Boulevard | Utility location |
| 24. | El Toro Road | Station 421+00 to 426+00 |
| 25. | Selva Road | W/O Chula Vista to Golden Lantern |
| 26. | Forster Disposal Station | Station 18+00 to 28+00 |
| 27. | Palisades Drive | Camino Capistrano to P.C.H. |
| 28. | Monte Vista Avenue | La Habra to S.P.R.R. |
| 29. | Aliso Beach | Phase 2 N'ly of P.C.H. |
| 30. | Dana Point Maintenance Yard | |
| 31. | Yorba Park | Storm Drain |
| 32. | Los Alisos Boulevard | Muirlands to Jeronimo |
| 33. | Moulton Parkway | S/O Santa Maria to N/O Ridge Route |
| 34. | Gilbert Street | 300' N'ly Colchester to 300' S/O City limits |
| 35. | Los Alisos Boulevard | Rockfield to Muirlands |
| 36. | Hewes Avenue | 400' N/O Dodge to Fairhaven |
| 37. | Jeronimo Road | Obero Drive to 500' N'ly |
| 38. | P.C.H. Bike Trail | Camino Capistrano to Doheny |
| 39. | Placentia Retarding Basin | State College and Placentia |
| 40. | Katella Avenue | Knott to Western |
| 41. | Dana Point Harbor | W'ly Public Areas |
| 42. | Lemon/Taft Drain | Lemon to Taft |

## PRELIMINARY SURVEYS

| | PROJECT | PROJECT LIMITS |
|---|---|---|
| 43. | Forrest Paull Park | |
| 44. | Hewes Storm Drain | 200' N/O Dodge to 1100' N/O Foothill |
| 45. | Harbor-Edinger Pump Station | Santa Ana River N'ly 1500' |
| 46. | E.G.G. - Wintersburg Channel Retarding Basin | @ Newland and Edinger |
| 47. | Orangethorpe Storm Drain | Artesia Freeway to Valley View Street |
| 48. | Stonehill Drive | 715' W/O Intra Way to Golden Lantern |
| 49. | Iglesia Park | In Laguna Hills |
| 50. | Oso Creek | Camino Capistrano to 1700' S'ly Avery |
| 51. | Irvine Boulevard | Pusan to Bake Parkway |
| 52. | Mile Square Park | Skating Area |
| 53. | Crown Valley Parkway | Puerta Real to Marguerite |
| 54. | Camino Capistrano Bike Trail | Oso to Avery |
| 55. | Canyon Acres | Laguna Canyon Road to 2000' E'ly |
| 56. | Laguna Niguel Regional Park | Irrigation Conversion |
| 57. | Main Street | 0.13 to 0.32 Mi. SE'ly Red Hill |
| 58. | P.C.H. Bike Trail | Camino Capistrano to Doheny |
| 59. | Malena Storm Drain | Carlsbad to Santa Clara |
| 60. | El Modena Redevelopment | Various streets |
| 61. | Moulton Parkway | @ Ridge Route |
| 62. | Mile Square Park | along Warner |
| 63. | Oso Creek | Camino Capistrano to 1700' S'ly Avery |
| 64. | Newport Avenue | Wass to 17th Street |

## PRELIMINARY SURVEYS

| | PROJECT | PROJECT LIMITS |
|---|---|---|
| 65. | El Modena Redevelopment | Various intersections |
| 66. | Prospect Storm Drain | Santa Clara to Dunas |
| 67. | Kraemer Storm Drain | Chapman to Alta Vista |
| 68. | Irvine Boulevard | Bake Parkway to Canada |
| 69. | Lemon-Taft | Center to Taft |
| 70. | Cerritos Avenue | Dale to 1200' E'ly Dale |
| 71. | Marquita Storm Channel | Camino Real and Calle Puente |
| 72. | C & G Reconstruction | Fairhaven, Calvo, Ponderosa, Deodar, Grovemont |
| 73. | La Plama Avenue | 800' W/O Big Spring to 1500' E/O Mosswood |
| 74. | Laguna Niguel Park | Irrigation Conversion |
| 75. | Gigi Storm Drain | Foothill to La Limonar |
| 76. | Esperanza Road | W/O Imperial to E/O Fairlynn |
| 77. | Flying Cloud Drive | N/O Starview Lane |
| 78. | Barranca Road Bridge | @ Peters Canyon Wash |
| 79. | Newland Retarding Basin | @ Newland and Edinger |
| 80. | Stonehill Drive | Golden Lantern to Ocean Hill |
| 81. | Newland Retarding Basin | @ Newland and Edinger |
| 82. | Talbert Channel | Ellis to Talbert |
| 83. | Prospect Storm Drain | Santa Clara to Donas |
| 84. | Malina Storm Drain | Carlsbad to Santa Clara |
| 85. | Hewes Avenue | 17th to Fairhaven |
| 86. | Forrest Paull Park | Along Garden Grove Boulevard |
| 87. | Stanton Storm Drain | |
| 88. | Sand Canyon Avenue | |

## PRELIMINARY SURVEYS

| | PROJECT | PROJECT LIMITS |
|---|---|---|
| 89. | La Cresta Drive | P.C.H. to Selva |
| 90. | Capistrano Valley Bike Trail ABS #15C | Near Avery |
| 91. | Fruit Street Yard | Locate Surveyor's Building |
| 92. | Stonehill Drive | AVCO P/L to Golden Lantern |
| 93. | William Mason Regional Park | Phase II |
| 94. | Mile Square Regional Park | Archery Range #1 |
| 95. | El Modena Redevelopment | Stake Parcel 131 |
| 96. | Featherly Park | Roadside Rest Expansion |
| 97. | Irvine Regional Park | Phase III |
| 98. | Lemon-Taft Storm Drain | Taft and Center |
| 99. | Malena S.D. | Carlsbad to Santa Clara |
| 100. | Prospect S.D. | Santa Clara to Dunas |
| 101. | Talbert Bridge | @ Santa Ana River |
| 102. | Rossmoor Streets | Los Alamitos |
| 103. | Irvine - Baycrest | Dover Dr. - Baycrest - Tradewinds |
| 104. | Loftus Diversion Channel | SPRR Crossing W/O Kraemer |
| 105. | Esperanza Road | Fairlynn to Fairmont |
| 106. | Raymond - La Palma S.D. | La Palma @ Acacia |
| 107. | Calle Real S.D. | Vista Del Mar to Camino Capistrano |
| 108. | Plano Trabuco Bridge | S'ly end Plano Trabuco |
| 109. | Brea Creek Retarding Basin | Malvern, TR. 7856, A.T. & S.F., Dale |
| 110. | Prospect S.D. | Pothole @ Fairhaven and Dunas |

## PRELIMINARY SURVEYS

| | PROJECT | PROJECT LIMITS |
|---|---|---|
| 111. | Prospect S.D. | Santa Clara to Dunas |
| 112. | Prospect S.D. | Santa Clara to Dunas |
| 113. | Calle Real S.D. | P.C.H. to Vista Del Mar |
| 114. | Calle Real S.D. | P.C.H. to Vista Del Mar |
| 115. | E. Richfield Channel | N/O Orangethorpe |
| 116. | Brea Creek Retarding Basin | Malvern, TR.7856, A.T. & S.F., Dale |
| 117. | Orangethorpe S.D. | Pothole @ Valley View |
| 118. | Dale-Cerritos S.D. | Dale to 1200' E/O Dale |
| 119. | Riverdale Test Stop | Riverside Freeway to Roxanne |
| 120. | Laguna Niguel Regional Park | Docking Facilities |
| 121. | Carbon Canyon Regional Park | Concession Building |
| 122. | Mile Square Regional Park | Phase III |
| 123. | Trabuco Road | Bake Parkway to Lake Forest Drive |
| 124. | Adams Avenue Bridge | Lawson to Albatross |
| 125. | Sand Canyon | Trabuco Road to Irvine Boulevard |
| 126. | Rossmoor Streets | Los Alamitos |
| 127. | Hewes S.D. | 200' N/O Dodge to 1100' N/O Foothill |

## CONSTRUCTION SURVEYS

Approximately 38 miles of construction surveys were completed during 1976. These surveys were made for the construction of the following projects:

| | PROJECT | PROJECT LIMITS |
|---|---|---|
| 1. | Prima Deschecha Disposal Station | Fencing Site |
| 2. | Superior Avenue | 285' S/O to 225 N/O Hospital Road |
| 3. | Placentia Basin | B01-B04 through Basin |
| 4. | Anaheim-Barber City Channel | @ Westminster Avenue |
| 5. | Santa Ana River | 550' S/O Garfield to 600' N/O S.D. Freeway |
| 6. | Palm-Valencia S.D. | E03 to N'ly of Yorba Linda Boulevard |
| 7. | Barranca S.D. | Barranca Road to 350' N/O Bell Avenue |
| 8. | Aliso Creek | Jeronimo Road to 2nd Street |
| 9. | Anaheim-Barber City Channel | @ U.S. Navy R.R. Culvert |
| 10. | Trabuco Road Bridge | El Toro to Trabuco Ranch line |
| 11. | El Toro Road | Trabuco Road to 1.4 miles N'ly |
| 12. | La Pata Road | Prima Deshecha to Ortega Highway |
| 13. | O'Neill Park | Fencing R/W |
| 14. | Main Street Bridge | @ Santiago Creek |
| 15. | Andora | 450' E/O and W/O Mercado |
| 16. | Ashgrove | Mercado to Faceta |
| 17. | 17th Street | Hewes to Gimbert Lane |
| 18. | La Sierra Place | Overhill to 500' NE'ly |
| 19. | Olinda Disposal Station | Station 34+70 to 53+14 |
| 20. | Foothill Boulevard | Newport to Arroyo |

## CONSTRUCTION SURVEYS

| | PROJECT | PROJECT LIMITS |
|---|---|---|
| 21. | Glassell Street | @ Frontera |
| 22. | Jeffrey Road | Barranca to Triomphe |
| 23. | Golden Lantern S.D. | P.C.H. to Selva Road |
| 24. | Cerritos S.D. | CO2 to Charlotta Avenue |
| 25. | Lamspon S.D. | Anaheim-Barber City through Beach |
| 26. | E.G.G.-Wintersburg<br>Permit #24075 | Magnolia to S.D. Freeway |
| 27. | Rose Bay Street | Random Drive to Orange Avenue |
| 28. | Seal Beach S.D. | Seal Beach Boulevard to Bolsa Avenue |
| 29. | Santa Ana River Greenbelt | Waterline |
| 30. | Dana Point Harbor | Waterline-Island Way Bridge |
| 31. | El Modena Redevelopment | Earlham, Chapman, Pearl, Center, Vine |
| 32. | Los Alisos Boulevard | @ Muirlands Boulevard - Signal |
| 33. | Harbor Boulevard | @ Heil - Median |
| 34. | El Toro Road | Sidewalks and access ramps |
| 35. | Sunset Beach | Drainage - various streets |
| 36. | La Sierra Place | Overhill to 500' NE'ly |
| 37. | Offsite S.D. | Bolsa to 1000' S'ly |
| 38. | Trabuco Road | 500' W'ly El Toro Road to Aliso Creek |
| 39. | Palisades Drive | P.C.H. to Camino Capistrano |
| 40. | Sumner | Crescent to Merten |
| 41. | Merten | Sumner to Moody |
| 42. | Santa Ana River | S.D. Freeway to Fairview |

## CONSTRUCTION SURVEYS

| | PROJECT | PROJECT LIMITS |
|---|---|---|
| 43. | Rossmoor Intersection | Los Alamitos |
| 44. | Broadway Avenue | Brookhurst to Thistle |
| 45. | Broadway S.D. | Gilbert to Brookhurst |
| 46. | Talbert Channel | F.V. Channel to Garfield |
| 47. | Westminster Channel | S.D. Freeway to Chestnut |
| 48. | Superior Avenue | 285' S/O to 225' N/O Hospital Road |
| 49. | Tropic S.D. | Tropic Lane to Newport Avenue |
| 50. | Paseo de Valencia | Sidewalks and access ramps |
| 51. | Yorba Linda Boulevard | E/O Kilt to E/O McCormack |
| 52. | Crown Valley Parkway | @ Niguel - Signal |
| 53. | Richfield Channel | Valley View to Imperial |
| 54. | Moulton Parkway | 1740' S/O Santa Maria to 300' N/O Ridge Route |
| 55. | Featherly Park | Campground extension |
| 56. | Alicia Parkway | 850' NE'ly S.D. Freeway to Muirlands |
| 57. | Perdido Street | Cerritos to Ball |
| 58. | Backbay Bikeway | San Joaquin Hills Road to East Bluff |
| 59. | Golden Lantern | P.C.H. to 533' N/O Selva |
| 60. | Coast Highway | @ Beach Boulevard - Signal |
| 61. | Pacific Coast Highway | @ Wesley Drive - Signal |
| 62. | La Paz Road | @ McIntyre- Signal |
| 63. | Santa Ana Gardens Channel | Permit #17576 |
| 64. | Loftus Channel | Permit #05376 |
| 65. | Del Obispo Channel | Permit Check |
| 66. | Oso Creek Channel | Permit Check |

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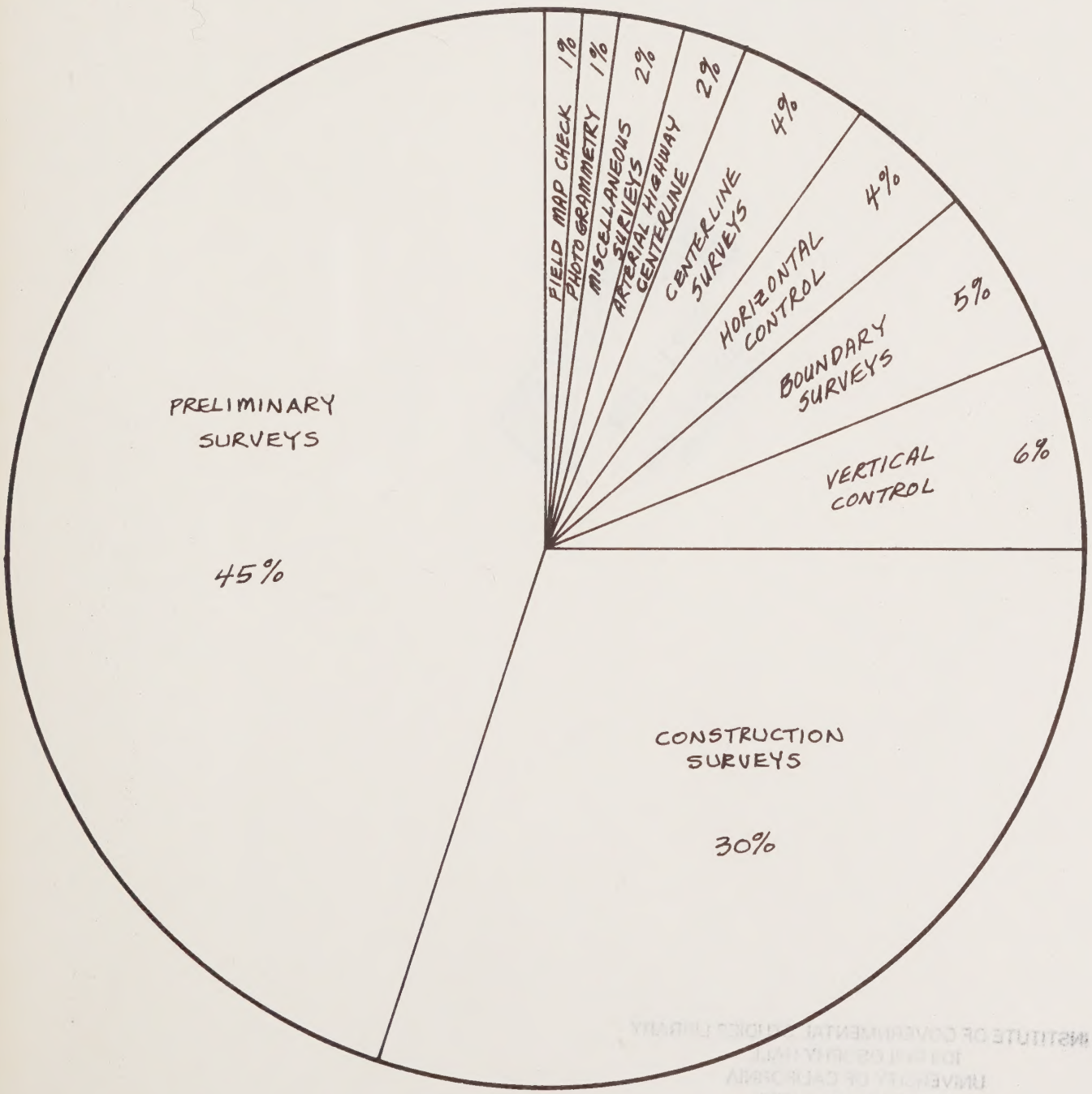

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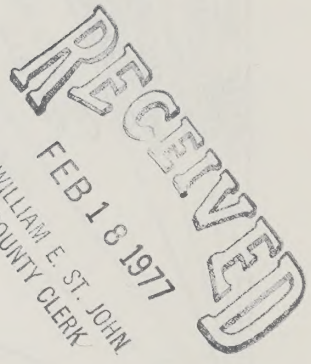


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